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Cumulative Michigan COVID-19 Data

Michigan COVID-19 State Data

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11-27-2020

## 2020-11-27\_MichiganOverview\_COVIDstats

Michigan Department of Health & Human Services

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# Coronavirus

CORONAVIRUS / MICHIGAN DATA

## Michigan Data



**DATA ABOUT  
PLACES**

**LONG TERM CARE FACILITIES**

**CORONAVIRUS  
SYMPTOMS**

**CUMULATIVE  
RECOVERED**

**OUTBREAK  
REPORTING**

**SCHOOL-RELATED  
OUTBREAK REPORTING**

## WASTEWATER SURVEILLANCE

### TESTING TURNAROUND TIME

**Note on deaths (11/27/20):** Regular reviews of death certificate data maintained in Vital Records reporting systems are conducted by MDHHS staff three times per week. As a part of this process, records that identify COVID-19 infection as a contributing factor to death are compared against all laboratory confirmed cases of COVID-19 in the Michigan Disease Surveillance System (MDSS). If a death certificate is matched to a confirmed COVID-19 case and that record in the MDSS does not indicate the individual died, the MDSS record is updated to indicate the death and the appropriate local health department is notified. These matched deaths are then included with mortality information posted to the Michigan Coronavirus website. As a result of the most recent assessment, today's data includes 108 additional deaths identified by this methodology.

**Note on cases (11/27/20):** Today's daily case count represents new referrals of confirmed cases to the MDSS since Wednesday, November 25th. Over the two days, Thursday and Friday, the average number of new confirmed cases is 8,581 per day.

### Current COVID-19 Statewide Data and Modeling Updates

Information on testing, disease trends, outbreaks, hospitalizations, deaths and the virus trajectory.

- November 24, 2020 slide deck.
- November 18, 2020 slide deck. View a [live presentation](#) of the Nov. 18 data.

The State of Michigan is working around the clock to test and treat COVID-19 patients. Below is the most recent data healthcare experts across the state have compiled. It is updated Monday - Saturday.

CURRENT STATUS

DAILY CASES

CUMULATIVE TRENDS

DEMOGRAPHICS

TOTAL TESTING

DIAGNOSTIC TESTING

LEARN MORE

View Cases

View Deaths

View Table

Select Preparedness Region:

All

Select County:

All

This report is provisional and subject to change. City of Detroit and Wayne County are reported separately. MDHHS began tracking probable cases April 5, 2020. FCI indicates federal correctional institute. MDOC indicates Michigan Department of Corrections. Diagnostic tests, including nucleic acid amplification/real-time polymerase chain reaction (NAAT/RT-PCR) and rapid virus antigen detection point of care (POC) tests, look for current infection. Serology (antibody) tests are used to look for the possibility of previous infection.

Source: Michigan Disease Surveillance System (MDSS) and Vital Records.

COVID-19 Cases by County

Confirmed cases include individuals with a positive diagnostic test for COVID-19. Probable cases include individuals with COVID-19 symptoms and an epidemiologic link to confirmed COVID-19, but no diagnostic test.

Cases by County

54-280

281-1199

1200-5827

5828-44623

44624+

Michigan

Friday, November 27, 2020

Michigan (Statewide) Case Fatality Rate

2.6%

Current Totals

Case Status	Cases	Deaths
Confirmed	341,941	8,933
Probable	27,860	424
Total	369,801	9,357

Laboratory Testing

Test Type	Tests Performed
Diagnostic	6,582,568
Serology	362,221
Total	6,944,789

Microsoft Power BI

< 1 of 7 >

Cases by Hispanic/Latino Ethnicity		
Hispanic/Latino Ethnicity	Percentage of Overall Cases by Ethnicity	Percentage of Deceased Cases by Ethnicity
Hispanic/Latino	5.79%	2.66%
Non-Hispanic Latino	67.58%	84.61%
Unknown	26.64%	12.73%

Totals may not add to 100% due to rounding

Cases by Arab Ethnicity

https://www.michigan.gov/coronavirus/0,9753,7-406-98163\_98173---,00.html

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<b>Arab Ethnicity</b>	<b>Percentage of Overall Cases by Ethnicity</b>	<b>Percentage of Deceased Cases by Ethnicity</b>
Arab	2.80%	1.89%
Non-Arab	47.79%	50.88%
Unknown	49.41%	47.23%

*Totals may not add to 100% due to rounding*

## PUBLIC USE DATASETS 11/27/2020

(Downloadable .xlsx files)

Cases and Deaths by County

Cases and Deaths by County by Date  
of Onset of Symptoms and Date of Death

Cases by Demographics Statewide

COVID-19 Tests by County

Diagnostic Tests by Result and County

## Cumulative Total of Recovered COVID-19 Cases

Cumulative Total of Recovered COVID-19 Cases (as of 11/20/2020): **152,267**

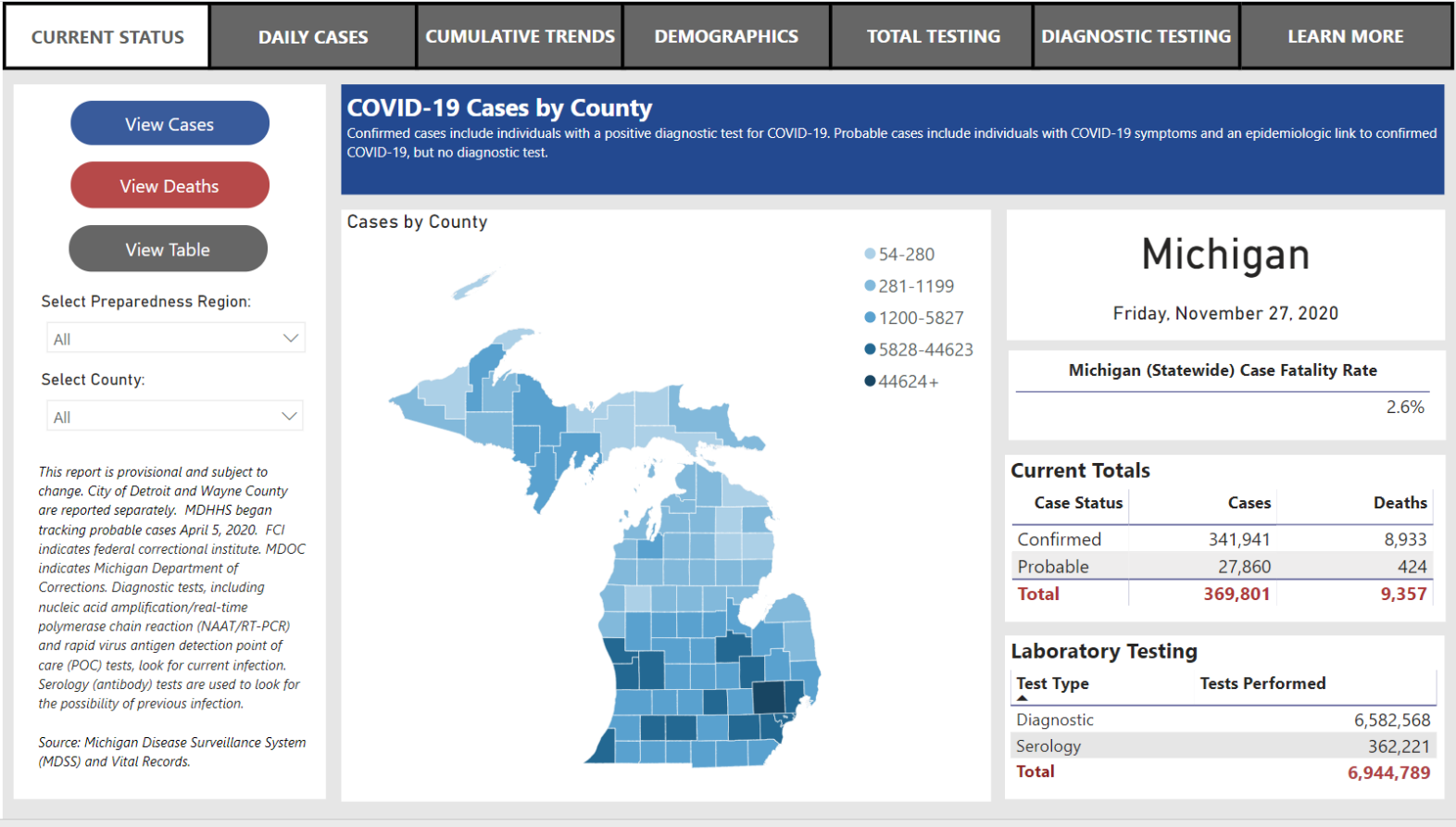
**Note on recovery:** During this response, MDHHS is reviewing vital records statistics to identify any laboratory confirmed COVID-19 cases who are 30 days out from their onset of illness to represent recovery status. As the pandemic continues to impact Michigan, this pool will expand to include more cases. Recovered is defined as the number of persons with a confirmed COVID-19 diagnosis who are alive 30 days post-onset (or referral date if onset is not available). The number of persons recovered on November 20, 2020 represents COVID-19 confirmed individuals with an onset date on or prior to October 21, 2020. If an individual dies from a COVID-related cause >30 days from onset/referral, they are removed from the number of persons recovered. These numbers will be updated every Saturday.

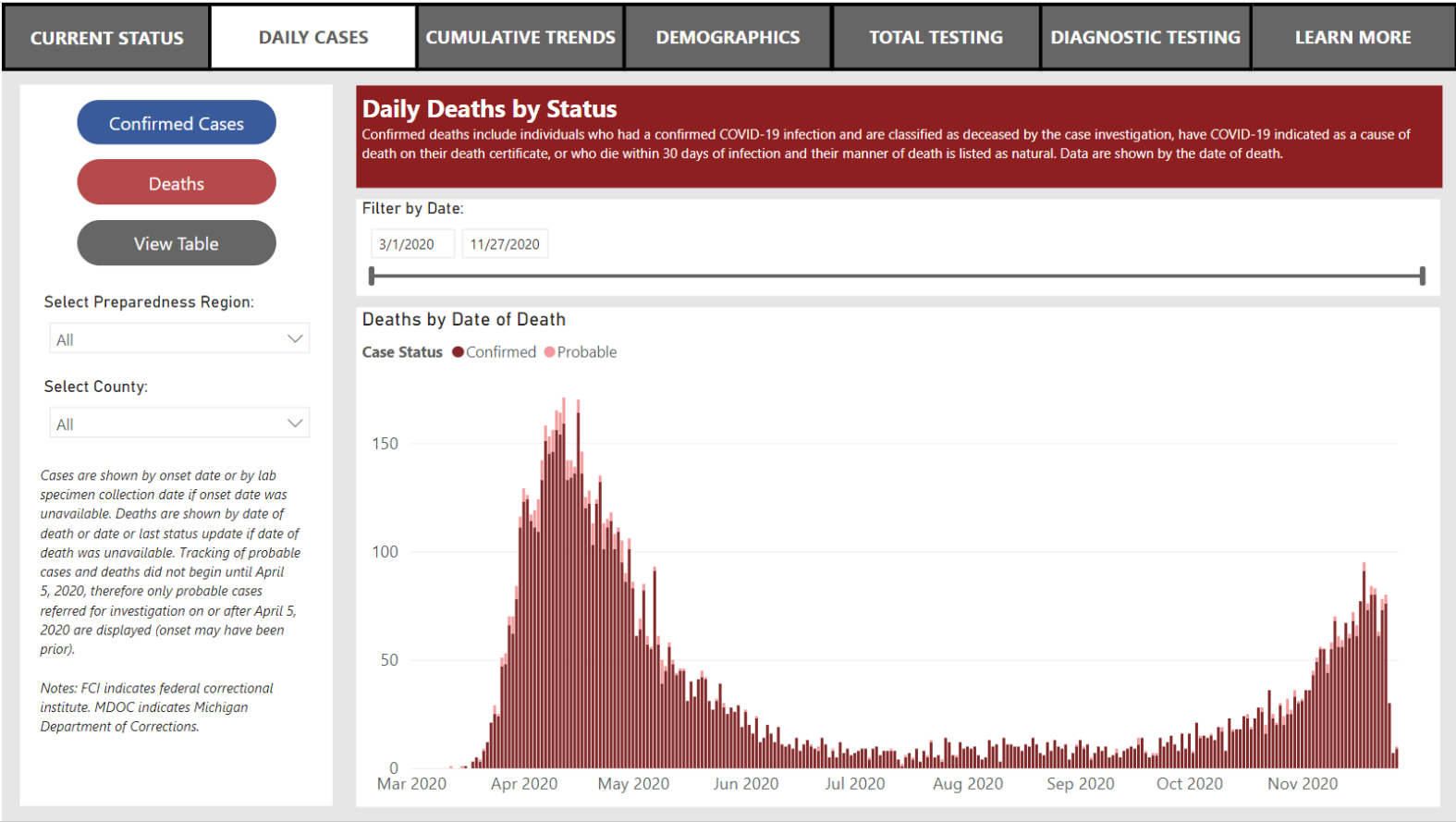
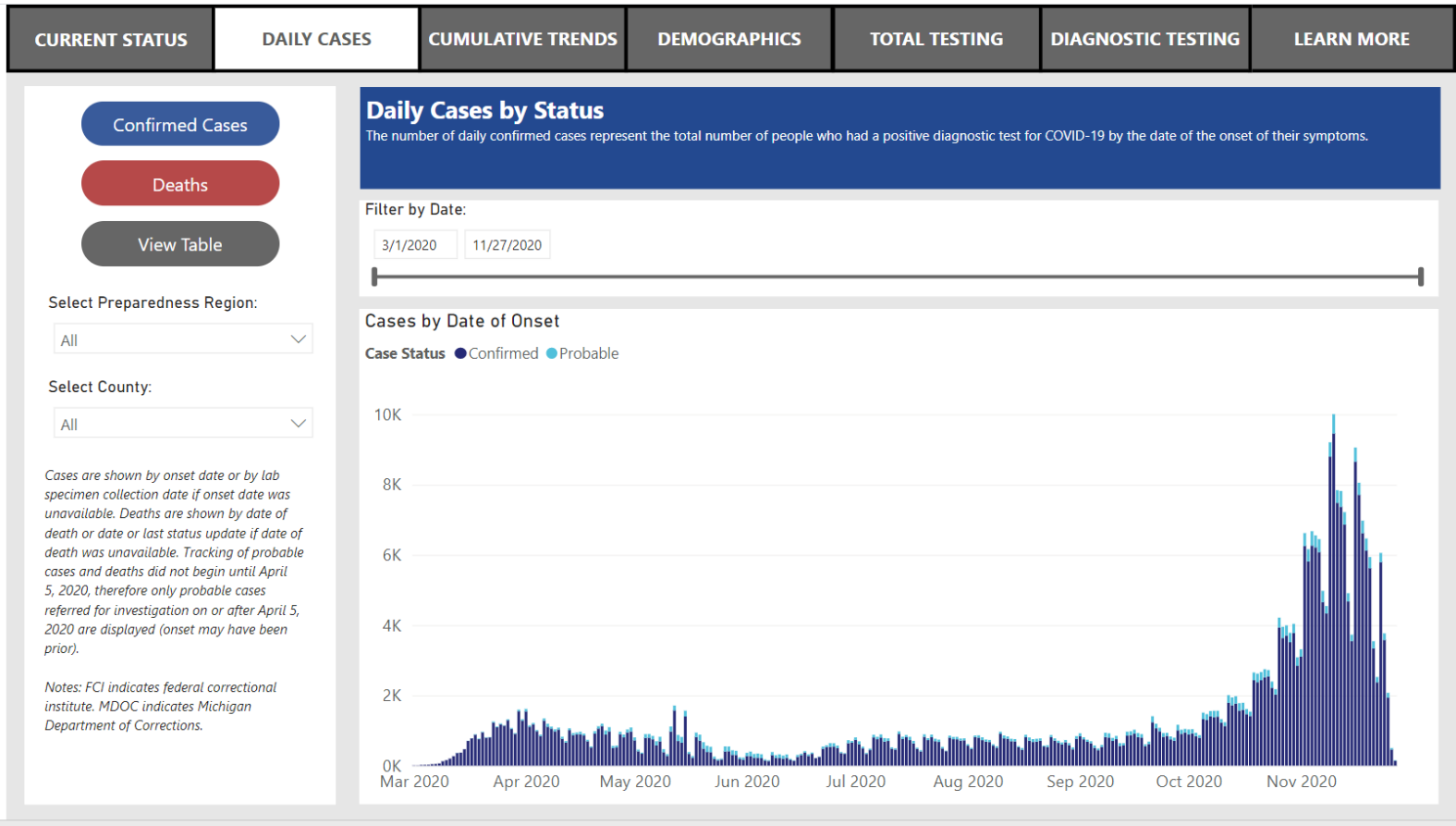
**Source:** Michigan Disease Surveillance System and Vital Records

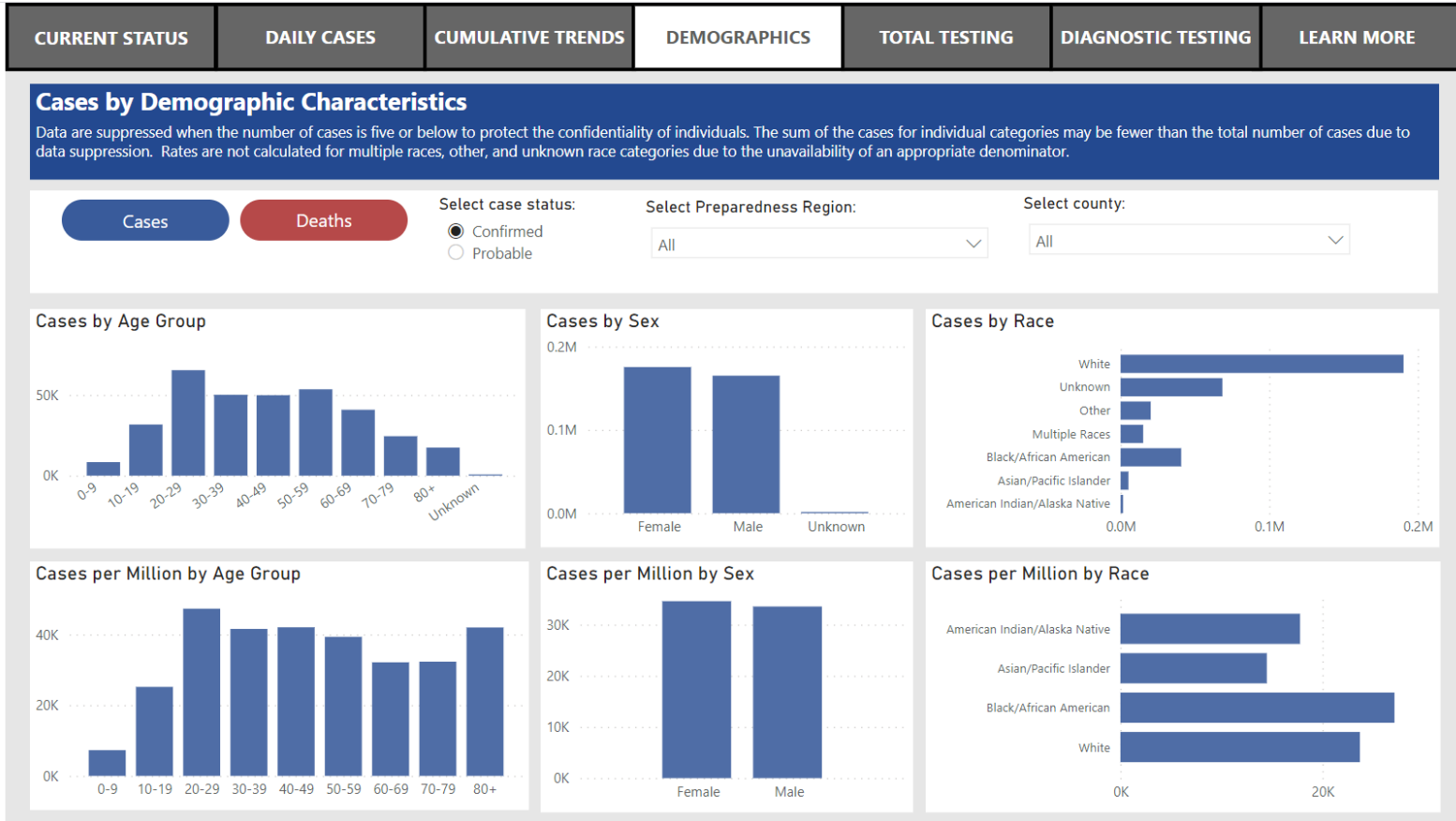
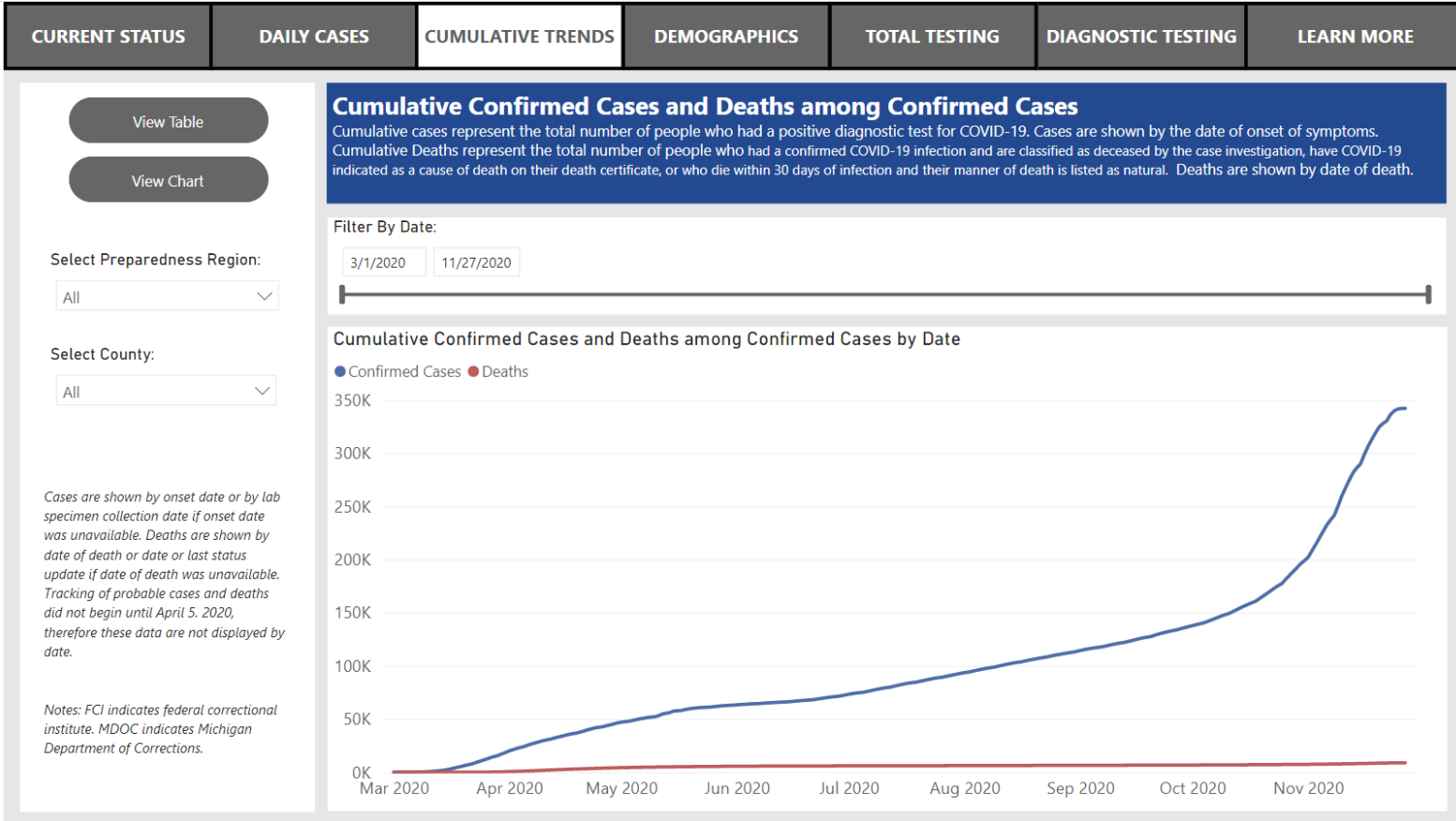


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Cases by Demographic Characteristics

Data are suppressed when the number of cases is five or below to protect the confidentiality of individuals. The sum of the cases for individual categories may be fewer than the total number of cases due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.

Cases

Deaths

Select case status:

Confirmed

Probable

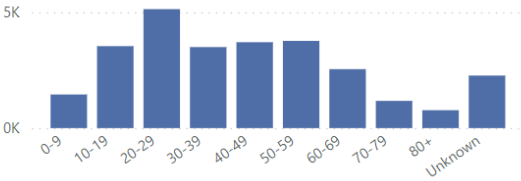
Select Preparedness Region:

All

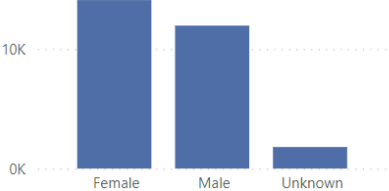
Select county:

All

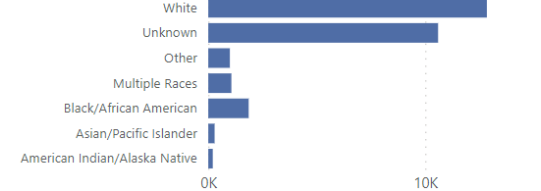
Cases by Age Group



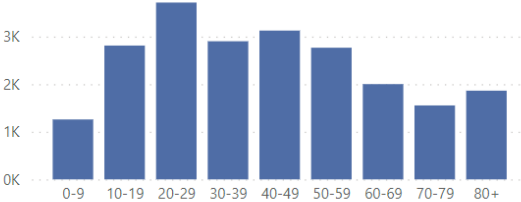
Cases by Sex



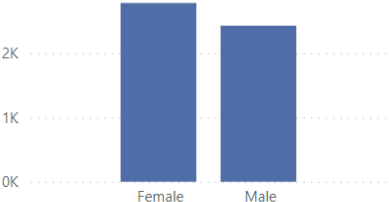
Cases by Race



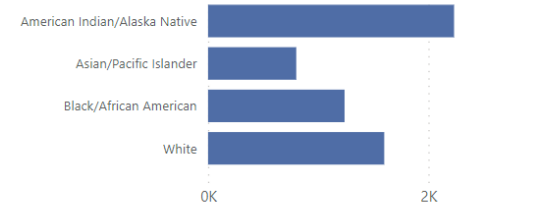
Cases per Million by Age Group



Cases per Million by Sex



Cases per Million by Race



Deaths by Demographic Characteristics

Data are suppressed when the number of deaths is five or below to protect the confidentiality of individuals. The sum of the deaths for individual categories may be fewer than the total number of deaths due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.

Cases

Deaths

Select case status:

Confirmed

Probable

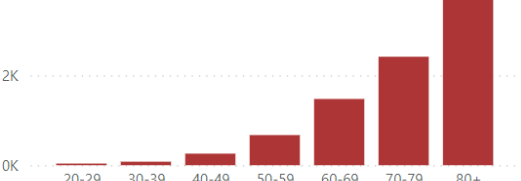
Select Preparedness Region:

All

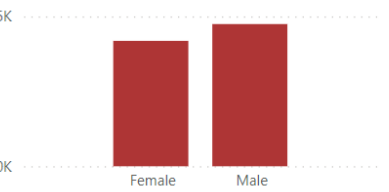
Select county:

All

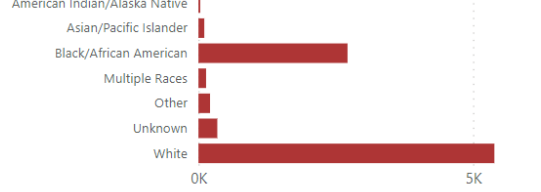
Deaths by Age Group



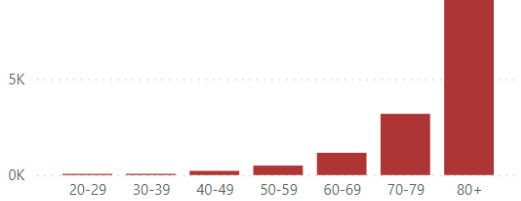
Deaths by Sex



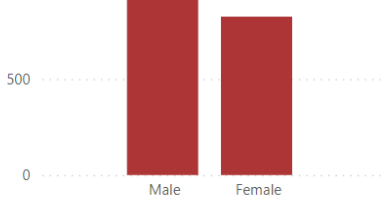
Deaths by Race



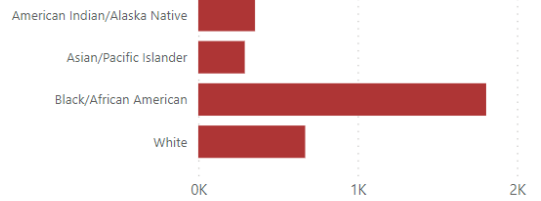
Deaths per Million by Age Group



Deaths per Million by Sex



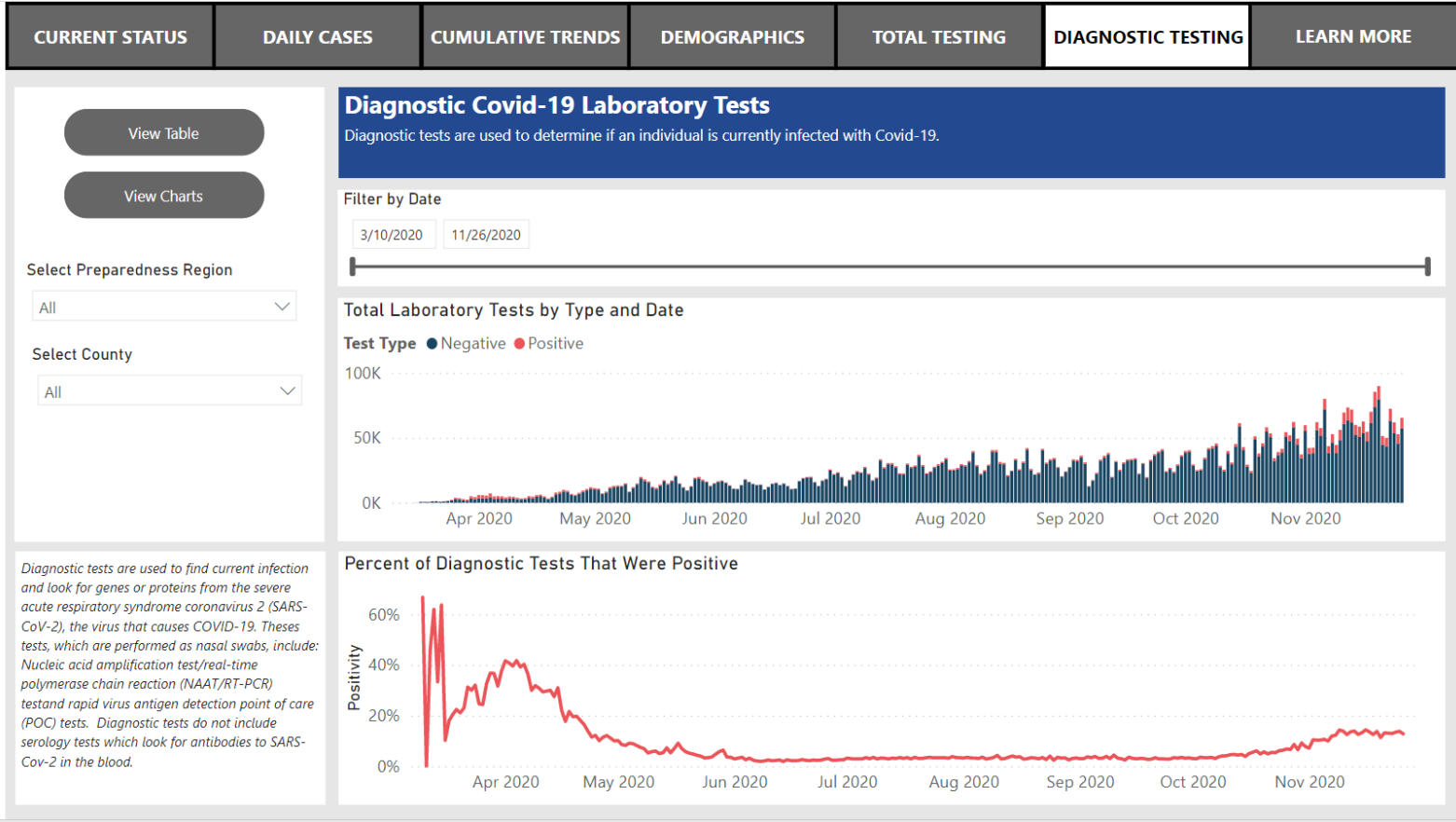
Deaths per Million by Race



Deaths by Demographic Characteristics

Data are suppressed when the number of deaths is five or below to protect the confidentiality of individuals. The sum of the deaths for individual categories may be fewer than the total number of deaths due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.





# PUBLIC USE DATASETS

## Cases and Deaths by County

### README

Includes total cases and deaths to date by case status (confirmed or probable) and county.

County is based on the county of residence.

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

# **CASES AND DEATHS BY COUNTY 2020-11-27**

Updated	COUNTY	ConfirmedCases	ConfirmedDeaths	ProbableCases	ProbableDeaths
2020/11/27 14:39:56	Alcona	155	3	13	0
2020/11/27 14:39:56	Alger	148	1	74	1
2020/11/27 14:39:56	Allegan	3504	26	309	5
2020/11/27 14:39:56	Alpena	529	17	63	0
2020/11/27 14:39:56	Antrim	376	5	21	0
2020/11/27 14:39:56	Arenac	369	13	43	0
2020/11/27 14:39:56	Baraga	416	12	57	0
2020/11/27 14:39:56	Barry	1918	13	123	0
2020/11/27 14:39:56	Bay	4123	89	154	0
2020/11/27 14:39:56	Benzie	338	5	40	0
2020/11/27 14:39:56	Berrien	6085	110	415	4
2020/11/27 14:39:56	Branch	1970	25	204	4
2020/11/27 14:39:56	Calhoun	5204	115	624	5
2020/11/27 14:39:56	Cass	1964	29	177	0
2020/11/27 14:39:56	Charlevoix	494	8	48	0
2020/11/27 14:39:56	Cheboygan	427	19	44	0
2020/11/27 14:39:56	Chippewa	333	5	452	0
2020/11/27 14:39:56	Clare	656	25	77	0
2020/11/27 14:39:56	Clinton	2431	22	181	0
2020/11/27 14:39:56	Crawford	310	5	22	0
2020/11/27 14:39:56	Delta	2165	48	239	10
2020/11/27 14:39:56	Dickinson	1585	39	90	5
2020/11/27 14:39:56	Eaton	2774	36	174	0
2020/11/27 14:39:56	Emmet	867	28	59	0
2020/11/27 14:39:56	Genesee	12404	387	1767	29
2020/11/27 14:39:56	Gladwin	683	9	109	1
2020/11/27 14:39:56	Gogebic	561	11	200	12
2020/11/27 14:39:56	Grand Traverse	1675	19	174	0
2020/11/27 14:39:56	Gratiot	1476	29	112	0
2020/11/27 14:39:56	Hillsdale	1483	35	103	2
2020/11/27 14:39:56	Houghton	1241	11	258	2
2020/11/27 14:39:56	Huron	619	13	130	0
2020/11/27 14:39:56	Ingham	8466	106	157	0
2020/11/27 14:39:56	Ionia	2220	15	55	0
2020/11/27 14:39:56	Iosco	622	21	66	1
2020/11/27 14:39:56	Iron	674	29	36	4
2020/11/27 14:39:56	Isabella	2132	19	238	0
2020/11/27 14:39:56	Jackson	4948	98	72	2
2020/11/27 14:39:56	Kalamazoo	7858	158	1278	5
2020/11/27 14:39:56	Kalkaska	321	5	25	0
2020/11/27 14:39:56	Kent	30585	330	1547	6
2020/11/27 14:39:56	Keweenaw	56	1	11	0
2020/11/27 14:39:56	Lake	186	4	4	0
2020/11/27 14:39:56	Lapeer	2087	50	276	1
2020/11/27 14:39:56	Leelanau	335	3	30	0
2020/11/27 14:39:56	Lenawee	2434	22	90	0
2020/11/27 14:39:56	Livingston	4833	45	477	1

2020/11/27 14:39:56	Luce	117	0	49	0
2020/11/27 14:39:56	Mackinac	206	0	71	0
2020/11/27 14:39:56	Macomb	34228	1198	1586	55
2020/11/27 14:39:56	Manistee	348	5	18	1
2020/11/27 14:39:56	Marquette	2507	29	298	0
2020/11/27 14:39:56	Mason	537	10	40	0
2020/11/27 14:39:56	Mecosta	1152	7	48	0
2020/11/27 14:39:56	Menominee	1158	16	129	0
2020/11/27 14:39:56	Midland	2495	25	394	2
2020/11/27 14:39:56	Missaukee	259	4	22	0
2020/11/27 14:39:56	Monroe	4616	72	445	1
2020/11/27 14:39:56	Montcalm	1794	24	148	0
2020/11/27 14:39:56	Montmorency	139	2	15	0
2020/11/27 14:39:56	Muskegon	7107	167	144	2
2020/11/27 14:39:56	Newaygo	1506	16	35	0
2020/11/27 14:39:56	Oakland	39102	1286	5522	58
2020/11/27 14:39:56	Oceana	1133	16	47	0
2020/11/27 14:39:56	Ogemaw	444	12	37	0
2020/11/27 14:39:56	Ontonagon	249	12	26	1
2020/11/27 14:39:56	Osceola	459	6	49	0
2020/11/27 14:39:56	Oscoda	127	4	22	0
2020/11/27 14:39:56	Otsego	648	15	77	1
2020/11/27 14:39:56	Ottawa	12748	131	567	12
2020/11/27 14:39:56	Presque Isle	218	3	24	1
2020/11/27 14:39:56	Roscommon	520	10	79	0
2020/11/27 14:39:56	Saginaw	7877	219	375	6
2020/11/27 14:39:56	Sanilac	749	13	15	1
2020/11/27 14:39:56	Schoolcraft	161	1	11	1
2020/11/27 14:39:56	Shiawassee	1805	40	54	1
2020/11/27 14:39:56	St Clair	3786	80	488	2
2020/11/27 14:39:56	St Joseph	2243	32	246	1
2020/11/27 14:39:56	Tuscola	1524	51	127	0
2020/11/27 14:39:56	Van Buren	2576	39	151	2
2020/11/27 14:39:56	Washtenaw	8820	131	888	1
2020/11/27 14:39:56	Wayne	38104	1451	2889	58
2020/11/27 14:39:56	Wexford	578	13	30	0
2020/11/27 14:39:56	MDOC	11890	84	233	0
2020/11/27 14:39:56	FCI	194	5	5	0
2020/11/27 14:39:56	Out-of-State	952	5	29	1
2020/11/27 14:39:56	Unknown	44	0	10	0
2020/11/27 14:39:56	Detroit City	19781	1581	1499	116

# PUBLIC USE DATASETS

## Cases by Demographics Statewide

### README

Includes the total number of confirmed and probable cases and confirmed and probable deaths to date by demographic characteristics

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

Data is suppressed when the number of cases or deaths in a single category is between one and five to protect the confidentiality of individuals.

# **CASES BY DEMOGRAPHICS STATEWIDE 2020-11-27**

CASE_STATUS	AgeCat	RaceCat	SEX	Cases	Deaths
Confirmed	0-9	American Indian/Alaska Native	Female	33	0
Confirmed	10-19	American Indian/Alaska Native	Female	102	0
Confirmed	20-29	American Indian/Alaska Native	Female	194	0
Confirmed	30-39	American Indian/Alaska Native	Female	148	Suppressed
Confirmed	40-49	American Indian/Alaska Native	Female	125	0
Confirmed	50-59	American Indian/Alaska Native	Female	136	0
Confirmed	60-69	American Indian/Alaska Native	Female	75	Suppressed
Confirmed	70-79	American Indian/Alaska Native	Female	49	Suppressed
Confirmed	80+	American Indian/Alaska Native	Female	17	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Female	0	0
Confirmed	0-9	Asian/Pacific Islander	Female	75	0
Confirmed	10-19	Asian/Pacific Islander	Female	261	0
Confirmed	20-29	Asian/Pacific Islander	Female	551	0
Confirmed	30-39	Asian/Pacific Islander	Female	505	0
Confirmed	40-49	Asian/Pacific Islander	Female	453	0
Confirmed	50-59	Asian/Pacific Islander	Female	405	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Female	216	Suppressed
Confirmed	70-79	Asian/Pacific Islander	Female	105	11
Confirmed	80+	Asian/Pacific Islander	Female	90	27
Confirmed	Unknown	Asian/Pacific Islander	Female	0	0
Confirmed	0-9	Black/African American	Female	352	Suppressed
Confirmed	10-19	Black/African American	Female	1085	Suppressed
Confirmed	20-29	Black/African American	Female	3622	7
Confirmed	30-39	Black/African American	Female	3333	9
Confirmed	40-49	Black/African American	Female	3140	57
Confirmed	50-59	Black/African American	Female	2967	118
Confirmed	60-69	Black/African American	Female	2613	249
Confirmed	70-79	Black/African American	Female	1639	339
Confirmed	80+	Black/African American	Female	1230	464
Confirmed	Unknown	Black/African American	Female	7	0
Confirmed	0-9	Multiple Races	Female	219	0
Confirmed	10-19	Multiple Races	Female	880	Suppressed
Confirmed	20-29	Multiple Races	Female	1605	0
Confirmed	30-39	Multiple Races	Female	1169	0
Confirmed	40-49	Multiple Races	Female	1254	Suppressed
Confirmed	50-59	Multiple Races	Female	1327	Suppressed
Confirmed	60-69	Multiple Races	Female	927	Suppressed
Confirmed	70-79	Multiple Races	Female	489	15
Confirmed	80+	Multiple Races	Female	347	33
Confirmed	Unknown	Multiple Races	Female	6	0
Confirmed	0-9	Other	Female	421	0
Confirmed	10-19	Other	Female	1213	0
Confirmed	20-29	Other	Female	2248	0
Confirmed	30-39	Other	Female	1668	Suppressed
Confirmed	40-49	Other	Female	1582	Suppressed
Confirmed	50-59	Other	Female	1206	8
Confirmed	60-69	Other	Female	741	17



Confirmed	70-79	Other	Female	413	25
Confirmed	80+	Other	Female	321	37
Confirmed	Unknown	Other	Female	Suppressed	0
Confirmed	0-9	Unknown	Female	711	0
Confirmed	10-19	Unknown	Female	2948	0
Confirmed	20-29	Unknown	Female	6725	Suppressed
Confirmed	30-39	Unknown	Female	5198	0
Confirmed	40-49	Unknown	Female	5517	6
Confirmed	50-59	Unknown	Female	5834	10
Confirmed	60-69	Unknown	Female	3781	22
Confirmed	70-79	Unknown	Female	1845	35
Confirmed	80+	Unknown	Female	1530	90
Confirmed	Unknown	Unknown	Female	77	0
Confirmed	0-9	White	Female	2194	0
Confirmed	10-19	White	Female	10004	0
Confirmed	20-29	White	Female	19352	7
Confirmed	30-39	White	Female	13270	15
Confirmed	40-49	White	Female	13443	29
Confirmed	50-59	White	Female	14904	97
Confirmed	60-69	White	Female	11679	268
Confirmed	70-79	White	Female	7704	575
Confirmed	80+	White	Female	7079	1582
Confirmed	Unknown	White	Female	53	0
Confirmed	0-9	American Indian/Alaska Native	Male	29	0
Confirmed	10-19	American Indian/Alaska Native	Male	75	0
Confirmed	20-29	American Indian/Alaska Native	Male	136	0
Confirmed	30-39	American Indian/Alaska Native	Male	124	0
Confirmed	40-49	American Indian/Alaska Native	Male	129	0
Confirmed	50-59	American Indian/Alaska Native	Male	116	Suppressed
Confirmed	60-69	American Indian/Alaska Native	Male	92	11
Confirmed	70-79	American Indian/Alaska Native	Male	46	10
Confirmed	80+	American Indian/Alaska Native	Male	16	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Male	0	0
Confirmed	0-9	Asian/Pacific Islander	Male	98	0
Confirmed	10-19	Asian/Pacific Islander	Male	230	0
Confirmed	20-29	Asian/Pacific Islander	Male	636	0
Confirmed	30-39	Asian/Pacific Islander	Male	484	0
Confirmed	40-49	Asian/Pacific Islander	Male	394	Suppressed
Confirmed	50-59	Asian/Pacific Islander	Male	369	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Male	231	15
Confirmed	70-79	Asian/Pacific Islander	Male	99	22
Confirmed	80+	Asian/Pacific Islander	Male	54	19
Confirmed	Unknown	Asian/Pacific Islander	Male	0	0
Confirmed	0-9	Black/African American	Male	404	0
Confirmed	10-19	Black/African American	Male	1052	0
Confirmed	20-29	Black/African American	Male	3394	11
Confirmed	30-39	Black/African American	Male	3588	29
Confirmed	40-49	Black/African American	Male	3510	79
Confirmed	50-59	Black/African American	Male	3499	211
Confirmed	60-69	Black/African American	Male	2907	367

Confirmed	70-79	Black/African American	Male	1615	447
Confirmed	80+	Black/African American	Male	745	325
Confirmed	Unknown	Black/African American	Male	Suppressed	0
Confirmed	0-9	Multiple Races	Male	273	Suppressed
Confirmed	10-19	Multiple Races	Male	846	0
Confirmed	20-29	Multiple Races	Male	1316	0
Confirmed	30-39	Multiple Races	Male	928	0
Confirmed	40-49	Multiple Races	Male	990	Suppressed
Confirmed	50-59	Multiple Races	Male	1059	7
Confirmed	60-69	Multiple Races	Male	820	23
Confirmed	70-79	Multiple Races	Male	454	18
Confirmed	80+	Multiple Races	Male	201	28
Confirmed	Unknown	Multiple Races	Male	Suppressed	0
Confirmed	0-9	Other	Male	449	0
Confirmed	10-19	Other	Male	1211	0
Confirmed	20-29	Other	Male	2388	Suppressed
Confirmed	30-39	Other	Male	1815	Suppressed
Confirmed	40-49	Other	Male	1680	9
Confirmed	50-59	Other	Male	1390	11
Confirmed	60-69	Other	Male	820	39
Confirmed	70-79	Other	Male	421	34
Confirmed	80+	Other	Male	183	22
Confirmed	Unknown	Other	Male	Suppressed	0
Confirmed	0-9	Unknown	Male	741	0
Confirmed	10-19	Unknown	Male	2877	0
Confirmed	20-29	Unknown	Male	6847	0
Confirmed	30-39	Unknown	Male	5538	Suppressed
Confirmed	40-49	Unknown	Male	5108	12
Confirmed	50-59	Unknown	Male	5772	14
Confirmed	60-69	Unknown	Male	3775	29
Confirmed	70-79	Unknown	Male	1717	51
Confirmed	80+	Unknown	Male	868	68
Confirmed	Unknown	Unknown	Male	71	0
Confirmed	0-9	White	Male	2356	0
Confirmed	10-19	White	Male	8715	0
Confirmed	20-29	White	Male	16032	9
Confirmed	30-39	White	Male	12148	18
Confirmed	40-49	White	Male	12309	55
Confirmed	50-59	White	Male	14333	184
Confirmed	60-69	White	Male	12026	426
Confirmed	70-79	White	Male	7807	829
Confirmed	80+	White	Male	4670	1292
Confirmed	Unknown	White	Male	45	0
Confirmed	0-9	American Indian/Alaska Native	Unknown	0	0
Confirmed	10-19	American Indian/Alaska Native	Unknown	Suppressed	0
Confirmed	20-29	American Indian/Alaska Native	Unknown	0	0
Confirmed	30-39	American Indian/Alaska Native	Unknown	Suppressed	0
Confirmed	40-49	American Indian/Alaska Native	Unknown	0	0
Confirmed	50-59	American Indian/Alaska Native	Unknown	Suppressed	0
Confirmed	60-69	American Indian/Alaska Native	Unknown	0	0

Confirmed	70-79	American Indian/Alaska Native	Unknown	0	0
Confirmed	80+	American Indian/Alaska Native	Unknown	0	0
Confirmed	Unknown	American Indian/Alaska Native	Unknown	0	0
Confirmed	0-9	Asian/Pacific Islander	Unknown	0	0
Confirmed	10-19	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	20-29	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	30-39	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	40-49	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	50-59	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	60-69	Asian/Pacific Islander	Unknown	0	0
Confirmed	70-79	Asian/Pacific Islander	Unknown	0	0
Confirmed	80+	Asian/Pacific Islander	Unknown	0	0
Confirmed	Unknown	Asian/Pacific Islander	Unknown	0	0
Confirmed	0-9	Black/African American	Unknown	Suppressed	0
Confirmed	10-19	Black/African American	Unknown	8	0
Confirmed	20-29	Black/African American	Unknown	10	0
Confirmed	30-39	Black/African American	Unknown	Suppressed	0
Confirmed	40-49	Black/African American	Unknown	Suppressed	0
Confirmed	50-59	Black/African American	Unknown	11	0
Confirmed	60-69	Black/African American	Unknown	7	0
Confirmed	70-79	Black/African American	Unknown	Suppressed	0
Confirmed	80+	Black/African American	Unknown	Suppressed	0
Confirmed	Unknown	Black/African American	Unknown	0	0
Confirmed	0-9	Multiple Races	Unknown	Suppressed	0
Confirmed	10-19	Multiple Races	Unknown	7	0
Confirmed	20-29	Multiple Races	Unknown	14	0
Confirmed	30-39	Multiple Races	Unknown	9	0
Confirmed	40-49	Multiple Races	Unknown	10	0
Confirmed	50-59	Multiple Races	Unknown	6	0
Confirmed	60-69	Multiple Races	Unknown	6	0
Confirmed	70-79	Multiple Races	Unknown	Suppressed	0
Confirmed	80+	Multiple Races	Unknown	Suppressed	0
Confirmed	Unknown	Multiple Races	Unknown	Suppressed	0
Confirmed	0-9	Other	Unknown	Suppressed	0
Confirmed	10-19	Other	Unknown	Suppressed	0
Confirmed	20-29	Other	Unknown	12	0
Confirmed	30-39	Other	Unknown	14	0
Confirmed	40-49	Other	Unknown	12	0
Confirmed	50-59	Other	Unknown	Suppressed	0
Confirmed	60-69	Other	Unknown	8	0
Confirmed	70-79	Other	Unknown	Suppressed	0
Confirmed	80+	Other	Unknown	Suppressed	0
Confirmed	Unknown	Other	Unknown	Suppressed	0
Confirmed	0-9	Unknown	Unknown	27	0
Confirmed	10-19	Unknown	Unknown	123	0
Confirmed	20-29	Unknown	Unknown	231	0
Confirmed	30-39	Unknown	Unknown	120	0
Confirmed	40-49	Unknown	Unknown	168	0
Confirmed	50-59	Unknown	Unknown	158	0
Confirmed	60-69	Unknown	Unknown	81	0

Confirmed	70-79	Unknown	Unknown	33	0
Confirmed	80+	Unknown	Unknown	39	Suppressed
Confirmed	Unknown	Unknown	Unknown	17	0
Confirmed	0-9	White	Unknown	Suppressed	0
Confirmed	10-19	White	Unknown	46	0
Confirmed	20-29	White	Unknown	60	0
Confirmed	30-39	White	Unknown	34	0
Confirmed	40-49	White	Unknown	31	0
Confirmed	50-59	White	Unknown	22	0
Confirmed	60-69	White	Unknown	35	0
Confirmed	70-79	White	Unknown	15	0
Confirmed	80+	White	Unknown	12	Suppressed
Confirmed	Unknown	White	Unknown	Suppressed	0
Probable	0-9	American Indian/Alaska Native	Female	12	0
Probable	10-19	American Indian/Alaska Native	Female	15	0
Probable	20-29	American Indian/Alaska Native	Female	25	0
Probable	30-39	American Indian/Alaska Native	Female	13	0
Probable	40-49	American Indian/Alaska Native	Female	15	0
Probable	50-59	American Indian/Alaska Native	Female	11	0
Probable	60-69	American Indian/Alaska Native	Female	9	0
Probable	70-79	American Indian/Alaska Native	Female	Suppressed	0
Probable	80+	American Indian/Alaska Native	Female	Suppressed	0
Probable	Unknown	American Indian/Alaska Native	Female	Suppressed	0
Probable	0-9	Asian/Pacific Islander	Female	11	0
Probable	10-19	Asian/Pacific Islander	Female	20	0
Probable	20-29	Asian/Pacific Islander	Female	37	0
Probable	30-39	Asian/Pacific Islander	Female	24	0
Probable	40-49	Asian/Pacific Islander	Female	15	0
Probable	50-59	Asian/Pacific Islander	Female	22	0
Probable	60-69	Asian/Pacific Islander	Female	10	Suppressed
Probable	70-79	Asian/Pacific Islander	Female	Suppressed	0
Probable	80+	Asian/Pacific Islander	Female	0	0
Probable	Unknown	Asian/Pacific Islander	Female	Suppressed	0
Probable	0-9	Black/African American	Female	44	0
Probable	10-19	Black/African American	Female	74	0
Probable	20-29	Black/African American	Female	183	0
Probable	30-39	Black/African American	Female	148	0
Probable	40-49	Black/African American	Female	160	Suppressed
Probable	50-59	Black/African American	Female	176	8
Probable	60-69	Black/African American	Female	130	12
Probable	70-79	Black/African American	Female	52	13
Probable	80+	Black/African American	Female	39	25
Probable	Unknown	Black/African American	Female	12	0
Probable	0-9	Multiple Races	Female	42	0
Probable	10-19	Multiple Races	Female	83	0
Probable	20-29	Multiple Races	Female	104	0
Probable	30-39	Multiple Races	Female	58	0
Probable	40-49	Multiple Races	Female	78	0
Probable	50-59	Multiple Races	Female	74	0
Probable	60-69	Multiple Races	Female	52	0

Probable	70-79	Multiple Races	Female	22	0
Probable	80+	Multiple Races	Female	13	Suppressed
Probable	Unknown	Multiple Races	Female	22	0
Probable	0-9	Other	Female	36	0
Probable	10-19	Other	Female	90	0
Probable	20-29	Other	Female	108	0
Probable	30-39	Other	Female	74	0
Probable	40-49	Other	Female	88	0
Probable	50-59	Other	Female	41	Suppressed
Probable	60-69	Other	Female	28	Suppressed
Probable	70-79	Other	Female	12	0
Probable	80+	Other	Female	Suppressed	0
Probable	Unknown	Other	Female	9	0
Probable	0-9	Unknown	Female	116	0
Probable	10-19	Unknown	Female	450	0
Probable	20-29	Unknown	Female	868	0
Probable	30-39	Unknown	Female	595	0
Probable	40-49	Unknown	Female	675	0
Probable	50-59	Unknown	Female	701	0
Probable	60-69	Unknown	Female	503	Suppressed
Probable	70-79	Unknown	Female	198	0
Probable	80+	Unknown	Female	138	8
Probable	Unknown	Unknown	Female	594	0
Probable	0-9	White	Female	429	0
Probable	10-19	White	Female	1045	0
Probable	20-29	White	Female	1331	0
Probable	30-39	White	Female	850	0
Probable	40-49	White	Female	953	Suppressed
Probable	50-59	White	Female	974	6
Probable	60-69	White	Female	607	18
Probable	70-79	White	Female	323	27
Probable	80+	White	Female	281	77
Probable	Unknown	White	Female	172	0
Probable	0-9	American Indian/Alaska Native	Male	9	0
Probable	10-19	American Indian/Alaska Native	Male	23	0
Probable	20-29	American Indian/Alaska Native	Male	19	0
Probable	30-39	American Indian/Alaska Native	Male	13	0
Probable	40-49	American Indian/Alaska Native	Male	13	0
Probable	50-59	American Indian/Alaska Native	Male	13	0
Probable	60-69	American Indian/Alaska Native	Male	7	Suppressed
Probable	70-79	American Indian/Alaska Native	Male	0	0
Probable	80+	American Indian/Alaska Native	Male	Suppressed	Suppressed
Probable	Unknown	American Indian/Alaska Native	Male	Suppressed	0
Probable	0-9	Asian/Pacific Islander	Male	19	0
Probable	10-19	Asian/Pacific Islander	Male	17	0
Probable	20-29	Asian/Pacific Islander	Male	39	0
Probable	30-39	Asian/Pacific Islander	Male	30	0
Probable	40-49	Asian/Pacific Islander	Male	12	0
Probable	50-59	Asian/Pacific Islander	Male	14	0
Probable	60-69	Asian/Pacific Islander	Male	6	0

Probable	70-79	Asian/Pacific Islander	Male	Suppressed	Suppressed
Probable	80+	Asian/Pacific Islander	Male	Suppressed	Suppressed
Probable	Unknown	Asian/Pacific Islander	Male	Suppressed	0
Probable	0-9	Black/African American	Male	46	0
Probable	10-19	Black/African American	Male	78	0
Probable	20-29	Black/African American	Male	141	0
Probable	30-39	Black/African American	Male	127	0
Probable	40-49	Black/African American	Male	112	8
Probable	50-59	Black/African American	Male	131	8
Probable	60-69	Black/African American	Male	116	21
Probable	70-79	Black/African American	Male	52	27
Probable	80+	Black/African American	Male	22	15
Probable	Unknown	Black/African American	Male	6	0
Probable	0-9	Multiple Races	Male	45	0
Probable	10-19	Multiple Races	Male	81	0
Probable	20-29	Multiple Races	Male	97	0
Probable	30-39	Multiple Races	Male	54	0
Probable	40-49	Multiple Races	Male	65	Suppressed
Probable	50-59	Multiple Races	Male	56	0
Probable	60-69	Multiple Races	Male	39	0
Probable	70-79	Multiple Races	Male	18	0
Probable	80+	Multiple Races	Male	Suppressed	Suppressed
Probable	Unknown	Multiple Races	Male	30	0
Probable	0-9	Other	Male	33	0
Probable	10-19	Other	Male	86	0
Probable	20-29	Other	Male	103	0
Probable	30-39	Other	Male	89	0
Probable	40-49	Other	Male	90	0
Probable	50-59	Other	Male	47	0
Probable	60-69	Other	Male	26	Suppressed
Probable	70-79	Other	Male	12	Suppressed
Probable	80+	Other	Male	Suppressed	0
Probable	Unknown	Other	Male	9	0
Probable	0-9	Unknown	Male	126	0
Probable	10-19	Unknown	Male	461	0
Probable	20-29	Unknown	Male	763	0
Probable	30-39	Unknown	Male	593	Suppressed
Probable	40-49	Unknown	Male	537	Suppressed
Probable	50-59	Unknown	Male	586	0
Probable	60-69	Unknown	Male	367	Suppressed
Probable	70-79	Unknown	Male	155	Suppressed
Probable	80+	Unknown	Male	85	9
Probable	Unknown	Unknown	Male	451	0
Probable	0-9	White	Male	433	0
Probable	10-19	White	Male	908	0
Probable	20-29	White	Male	1126	Suppressed
Probable	30-39	White	Male	689	Suppressed
Probable	40-49	White	Male	727	Suppressed
Probable	50-59	White	Male	765	8
Probable	60-69	White	Male	546	18

Probable	70-79	White	Male	269	26
Probable	80+	White	Male	171	47
Probable	Unknown	White	Male	134	0
Probable	0-9	American Indian/Alaska Native	Unknown	0	0
Probable	10-19	American Indian/Alaska Native	Unknown	0	0
Probable	20-29	American Indian/Alaska Native	Unknown	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Unknown	0	0
Probable	40-49	American Indian/Alaska Native	Unknown	0	0
Probable	50-59	American Indian/Alaska Native	Unknown	0	0
Probable	60-69	American Indian/Alaska Native	Unknown	0	0
Probable	70-79	American Indian/Alaska Native	Unknown	0	0
Probable	80+	American Indian/Alaska Native	Unknown	0	0
Probable	Unknown	American Indian/Alaska Native	Unknown	0	0
Probable	0-9	Asian/Pacific Islander	Unknown	0	0
Probable	10-19	Asian/Pacific Islander	Unknown	0	0
Probable	20-29	Asian/Pacific Islander	Unknown	Suppressed	0
Probable	30-39	Asian/Pacific Islander	Unknown	Suppressed	0
Probable	40-49	Asian/Pacific Islander	Unknown	Suppressed	0
Probable	50-59	Asian/Pacific Islander	Unknown	0	0
Probable	60-69	Asian/Pacific Islander	Unknown	0	0
Probable	70-79	Asian/Pacific Islander	Unknown	0	0
Probable	80+	Asian/Pacific Islander	Unknown	0	0
Probable	Unknown	Asian/Pacific Islander	Unknown	0	0
Probable	0-9	Black/African American	Unknown	0	0
Probable	10-19	Black/African American	Unknown	0	0
Probable	20-29	Black/African American	Unknown	Suppressed	0
Probable	30-39	Black/African American	Unknown	Suppressed	0
Probable	40-49	Black/African American	Unknown	Suppressed	0
Probable	50-59	Black/African American	Unknown	Suppressed	0
Probable	60-69	Black/African American	Unknown	Suppressed	0
Probable	70-79	Black/African American	Unknown	Suppressed	0
Probable	80+	Black/African American	Unknown	0	0
Probable	Unknown	Black/African American	Unknown	Suppressed	0
Probable	0-9	Multiple Races	Unknown	Suppressed	0
Probable	10-19	Multiple Races	Unknown	Suppressed	0
Probable	20-29	Multiple Races	Unknown	9	0
Probable	30-39	Multiple Races	Unknown	Suppressed	0
Probable	40-49	Multiple Races	Unknown	0	0
Probable	50-59	Multiple Races	Unknown	Suppressed	0
Probable	60-69	Multiple Races	Unknown	Suppressed	0
Probable	70-79	Multiple Races	Unknown	0	0
Probable	80+	Multiple Races	Unknown	0	0
Probable	Unknown	Multiple Races	Unknown	Suppressed	0
Probable	0-9	Other	Unknown	Suppressed	0
Probable	10-19	Other	Unknown	Suppressed	0
Probable	20-29	Other	Unknown	0	0
Probable	30-39	Other	Unknown	Suppressed	0
Probable	40-49	Other	Unknown	Suppressed	0
Probable	50-59	Other	Unknown	Suppressed	0
Probable	60-69	Other	Unknown	Suppressed	0

Probable	70-79	Other	Unknown	0	0
Probable	80+	Other	Unknown	0	0
Probable	Unknown	Other	Unknown	Suppressed	0
Probable	0-9	Unknown	Unknown	34	0
Probable	10-19	Unknown	Unknown	80	0
Probable	20-29	Unknown	Unknown	163	0
Probable	30-39	Unknown	Unknown	127	0
Probable	40-49	Unknown	Unknown	149	0
Probable	50-59	Unknown	Unknown	131	0
Probable	60-69	Unknown	Unknown	92	0
Probable	70-79	Unknown	Unknown	48	Suppressed
Probable	80+	Unknown	Unknown	9	0
Probable	Unknown	Unknown	Unknown	800	0
Probable	0-9	White	Unknown	11	0
Probable	10-19	White	Unknown	23	0
Probable	20-29	White	Unknown	14	0
Probable	30-39	White	Unknown	7	0
Probable	40-49	White	Unknown	15	0
Probable	50-59	White	Unknown	18	0
Probable	60-69	White	Unknown	Suppressed	0
Probable	70-79	White	Unknown	Suppressed	0
Probable	80+	White	Unknown	Suppressed	0
Probable	Unknown	White	Unknown	15	0



# PUBLIC USE DATASETS

## COVID-19 Tests by County

### README

Data includes tests by type (diagnostic, serology or total combined) by county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Serology tests are used to look for the possibility of previous infection. Serology tests look for antibodies to SARS-CoV-2 in the blood. There are currently two types of serology tests: the enzyme-linked immunosorbent assay (ELISA) test and the rapid antibody detection POC test. Serology tests do not diagnose disease and do not guarantee immunity, but might provide information about previous infection.

Correctional includes state and federal prisons and county and city detention facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.

**COVID-19 TESTS BY COUNTY 2020-11-27**

Updated	COUNTY	TestType	Count	RatePerMillion
2020/11/27 14:40:01	Alcona	Serology	88	8457
2020/11/27 14:40:01	Alcona	Diagnostic	3395	326285
2020/11/27 14:40:01	Alcona	Total	3483	334743
2020/11/27 14:40:01	Alger	Diagnostic	3782	415239
2020/11/27 14:40:01	Alger	Serology	185	20312
2020/11/27 14:40:01	Alger	Total	3967	435551
2020/11/27 14:40:01	Allegan	Serology	1472	12466
2020/11/27 14:40:01	Allegan	Diagnostic	59610	504823
2020/11/27 14:40:01	Allegan	Total	61082	517289
2020/11/27 14:40:01	Alpena	Serology	354	12463
2020/11/27 14:40:01	Alpena	Diagnostic	6792	239113
2020/11/27 14:40:01	Alpena	Total	7146	251575
2020/11/27 14:40:01	Antrim	Diagnostic	10173	436160
2020/11/27 14:40:01	Antrim	Serology	347	14877
2020/11/27 14:40:01	Antrim	Total	10520	451038
2020/11/27 14:40:01	Arenac	Diagnostic	7175	482094
2020/11/27 14:40:01	Arenac	Serology	250	16798
2020/11/27 14:40:01	Arenac	Total	7425	498891
2020/11/27 14:40:01	Baraga	Diagnostic	4630	564015
2020/11/27 14:40:01	Baraga	Serology	47	5725
2020/11/27 14:40:01	Baraga	Total	4677	569741
2020/11/27 14:40:01	Barry	Diagnostic	29360	477011
2020/11/27 14:40:01	Barry	Serology	1089	17693
2020/11/27 14:40:01	Barry	Total	30449	494703
2020/11/27 14:40:01	Bay	Serology	3304	32038
2020/11/27 14:40:01	Bay	Diagnostic	64802	628377
2020/11/27 14:40:01	Bay	Total	68106	660415
2020/11/27 14:40:01	Benzie	Diagnostic	7777	437746
2020/11/27 14:40:01	Benzie	Serology	342	19250
2020/11/27 14:40:01	Benzie	Total	8119	456997
2020/11/27 14:40:01	Berrien	Serology	3206	20899
2020/11/27 14:40:01	Berrien	Diagnostic	123118	802589
2020/11/27 14:40:01	Berrien	Total	126324	823489
2020/11/27 14:40:01	Branch	Diagnostic	22250	511294
2020/11/27 14:40:01	Branch	Serology	231	5308
2020/11/27 14:40:01	Branch	Total	22481	516603
2020/11/27 14:40:01	Calhoun	Diagnostic	111072	827913
2020/11/27 14:40:01	Calhoun	Serology	1083	8073
2020/11/27 14:40:01	Calhoun	Total	112155	835986
2020/11/27 14:40:01	Cass	Diagnostic	22196	428602
2020/11/27 14:40:01	Cass	Serology	402	7763
2020/11/27 14:40:01	Cass	Total	22598	436364
2020/11/27 14:40:01	Charlevoix	Diagnostic	12552	480129
2020/11/27 14:40:01	Charlevoix	Serology	678	25934
2020/11/27 14:40:01	Charlevoix	Total	13230	506063
2020/11/27 14:40:01	Cheboygan	Diagnostic	7395	292570
2020/11/27 14:40:01	Cheboygan	Serology	323	12779

2020/11/27 14:40:01	Cheboygan	Total	7718	305349
2020/11/27 14:40:01	Chippewa	Serology	182	4873
2020/11/27 14:40:01	Chippewa	Diagnostic	10343	276928
2020/11/27 14:40:01	Chippewa	Total	10525	281801
2020/11/27 14:40:01	Clare	Diagnostic	8655	279645
2020/11/27 14:40:01	Clare	Serology	578	18675
2020/11/27 14:40:01	Clare	Total	9233	298320
2020/11/27 14:40:01	Clinton	Diagnostic	30300	380677
2020/11/27 14:40:01	Clinton	Serology	2868	36032
2020/11/27 14:40:01	Clinton	Total	33168	416710
2020/11/27 14:40:01	Correctional	Serology	13098	
2020/11/27 14:40:01	Correctional	Diagnostic	339813	
2020/11/27 14:40:01	Correctional	Total	352911	
2020/11/27 14:40:01	Crawford	Diagnostic	5129	365600
2020/11/27 14:40:01	Crawford	Serology	171	12189
2020/11/27 14:40:01	Crawford	Total	5300	377789
2020/11/27 14:40:01	Delta	Diagnostic	23126	646266
2020/11/27 14:40:01	Delta	Serology	365	10200
2020/11/27 14:40:01	Delta	Total	23491	656467
2020/11/27 14:40:01	Detroit City	Serology	17794	27384
2020/11/27 14:40:01	Detroit City	Diagnostic	424347	653038
2020/11/27 14:40:01	Detroit City	Total	442141	680422
2020/11/27 14:40:01	Dickinson	Diagnostic	8701	344744
2020/11/27 14:40:01	Dickinson	Serology	84	3328
2020/11/27 14:40:01	Dickinson	Total	8785	348072
2020/11/27 14:40:01	Eaton	Diagnostic	67516	612290
2020/11/27 14:40:01	Eaton	Serology	4492	40737
2020/11/27 14:40:01	Eaton	Total	72008	653027
2020/11/27 14:40:01	Emmet	Diagnostic	16519	494359
2020/11/27 14:40:01	Emmet	Serology	1079	32291
2020/11/27 14:40:01	Emmet	Total	17598	526650
2020/11/27 14:40:01	Genesee	Serology	13166	32444
2020/11/27 14:40:01	Genesee	Diagnostic	190913	470446
2020/11/27 14:40:01	Genesee	Total	204079	502889
2020/11/27 14:40:01	Gladwin	Diagnostic	8371	328932
2020/11/27 14:40:01	Gladwin	Serology	494	19411
2020/11/27 14:40:01	Gladwin	Total	8865	348344
2020/11/27 14:40:01	Gogebic	Diagnostic	12756	912773
2020/11/27 14:40:01	Gogebic	Serology	156	11163
2020/11/27 14:40:01	Gogebic	Total	12912	923936
2020/11/27 14:40:01	Grand Traverse	Diagnostic	43545	467783
2020/11/27 14:40:01	Grand Traverse	Serology	2810	30186
2020/11/27 14:40:01	Grand Traverse	Total	46355	497970
2020/11/27 14:40:01	Gratiot	Diagnostic	29766	731154
2020/11/27 14:40:01	Gratiot	Serology	619	15205
2020/11/27 14:40:01	Gratiot	Total	30385	746358
2020/11/27 14:40:01	Hillsdale	Diagnostic	23380	512663
2020/11/27 14:40:01	Hillsdale	Serology	422	9253
2020/11/27 14:40:01	Hillsdale	Total	23802	521916
2020/11/27 14:40:01	Houghton	Diagnostic	23612	661697

2020/11/27 14:40:01	Houghton	Serology	183	5128
2020/11/27 14:40:01	Houghton	Total	23795	666825
2020/11/27 14:40:01	Huron	Diagnostic	16527	533456
2020/11/27 14:40:01	Huron	Serology	349	11265
2020/11/27 14:40:01	Huron	Total	16876	544721
2020/11/27 14:40:01	Ingham	Diagnostic	186233	636899
2020/11/27 14:40:01	Ingham	Serology	15228	52078
2020/11/27 14:40:01	Ingham	Total	201461	688977
2020/11/27 14:40:01	Ionia	Diagnostic	39695	613552
2020/11/27 14:40:01	Ionia	Serology	1403	21686
2020/11/27 14:40:01	Ionia	Total	41098	635238
2020/11/27 14:40:01	Iosco	Diagnostic	12989	516934
2020/11/27 14:40:01	Iosco	Serology	280	11143
2020/11/27 14:40:01	Iosco	Total	13269	528077
2020/11/27 14:40:01	Iron	Diagnostic	14993	1354871
2020/11/27 14:40:01	Iron	Serology	50	4518
2020/11/27 14:40:01	Iron	Total	15043	1359389
2020/11/27 14:40:01	Isabella	Diagnostic	26220	375258
2020/11/27 14:40:01	Isabella	Serology	762	10906
2020/11/27 14:40:01	Isabella	Total	26982	386163
2020/11/27 14:40:01	Jackson	Diagnostic	123811	781093
2020/11/27 14:40:01	Jackson	Serology	1830	11545
2020/11/27 14:40:01	Jackson	Total	125641	792638
2020/11/27 14:40:01	Kalamazoo	Diagnostic	163873	618235
2020/11/27 14:40:01	Kalamazoo	Serology	4359	16445
2020/11/27 14:40:01	Kalamazoo	Total	168232	634680
2020/11/27 14:40:01	Kalkaska	Serology	338	18738
2020/11/27 14:40:01	Kalkaska	Diagnostic	10265	569076
2020/11/27 14:40:01	Kalkaska	Total	10603	587815
2020/11/27 14:40:01	Kent	Diagnostic	477654	727073
2020/11/27 14:40:01	Kent	Serology	24702	37601
2020/11/27 14:40:01	Kent	Total	502356	764673
2020/11/27 14:40:01	Keweenaw	Diagnostic	1203	568526
2020/11/27 14:40:01	Keweenaw	Serology	20	9452
2020/11/27 14:40:01	Keweenaw	Total	1223	577977
2020/11/27 14:40:01	Lake	Diagnostic	5229	441154
2020/11/27 14:40:01	Lake	Serology	136	11474
2020/11/27 14:40:01	Lake	Total	5365	452628
2020/11/27 14:40:01	Lapeer	Serology	1946	22213
2020/11/27 14:40:01	Lapeer	Diagnostic	35691	407399
2020/11/27 14:40:01	Lapeer	Total	37637	429612
2020/11/27 14:40:01	Leelanau	Diagnostic	7771	357107
2020/11/27 14:40:01	Leelanau	Serology	451	20725
2020/11/27 14:40:01	Leelanau	Total	8222	377832
2020/11/27 14:40:01	Lenawee	Diagnostic	53376	542158
2020/11/27 14:40:01	Lenawee	Serology	1136	11539
2020/11/27 14:40:01	Lenawee	Total	54512	553697
2020/11/27 14:40:01	Livingston	Serology	5304	27626
2020/11/27 14:40:01	Livingston	Diagnostic	102662	534712
2020/11/27 14:40:01	Livingston	Total	107966	562338

2020/11/27 14:40:01	Luce	Diagnostic	3321	533151
2020/11/27 14:40:01	Luce	Serology	38	6100
2020/11/27 14:40:01	Luce	Total	3359	539252
2020/11/27 14:40:01	Mackinac	Diagnostic	4690	434299
2020/11/27 14:40:01	Mackinac	Serology	74	6852
2020/11/27 14:40:01	Mackinac	Total	4764	441152
2020/11/27 14:40:01	Macomb	Serology	34723	39730
2020/11/27 14:40:01	Macomb	Diagnostic	437462	500545
2020/11/27 14:40:01	Macomb	Total	472185	540275
2020/11/27 14:40:01	Manistee	Diagnostic	9675	393965
2020/11/27 14:40:01	Manistee	Serology	497	20238
2020/11/27 14:40:01	Manistee	Total	10172	414203
2020/11/27 14:40:01	Marquette	Diagnostic	68713	1030195
2020/11/27 14:40:01	Marquette	Serology	1006	15083
2020/11/27 14:40:01	Marquette	Total	69719	1045278
2020/11/27 14:40:01	Mason	Serology	660	22646
2020/11/27 14:40:01	Mason	Diagnostic	17343	595080
2020/11/27 14:40:01	Mason	Total	18003	617726
2020/11/27 14:40:01	Mecosta	Diagnostic	22637	520954
2020/11/27 14:40:01	Mecosta	Serology	602	13854
2020/11/27 14:40:01	Mecosta	Total	23239	534808
2020/11/27 14:40:01	Menominee	Diagnostic	12039	528490
2020/11/27 14:40:01	Menominee	Serology	55	2414
2020/11/27 14:40:01	Menominee	Total	12094	530904
2020/11/27 14:40:01	Midland	Serology	3383	40683
2020/11/27 14:40:01	Midland	Diagnostic	26908	323585
2020/11/27 14:40:01	Midland	Total	30291	364267
2020/11/27 14:40:01	Missaukee	Diagnostic	5209	344556
2020/11/27 14:40:01	Missaukee	Serology	233	15412
2020/11/27 14:40:01	Missaukee	Total	5442	359968
2020/11/27 14:40:01	Monroe	Diagnostic	73234	486605
2020/11/27 14:40:01	Monroe	Serology	3014	20027
2020/11/27 14:40:01	Monroe	Total	76248	506631
2020/11/27 14:40:01	Montcalm	Diagnostic	41790	654113
2020/11/27 14:40:01	Montcalm	Serology	1431	22399
2020/11/27 14:40:01	Montcalm	Total	43221	676512
2020/11/27 14:40:01	Montmorency	Diagnostic	3123	334798
2020/11/27 14:40:01	Montmorency	Serology	202	21655
2020/11/27 14:40:01	Montmorency	Total	3325	356454
2020/11/27 14:40:01	Muskegon	Diagnostic	120166	692336
2020/11/27 14:40:01	Muskegon	Serology	1992	11477
2020/11/27 14:40:01	Muskegon	Total	122158	703813
2020/11/27 14:40:01	Newaygo	Diagnostic	24903	508432
2020/11/27 14:40:01	Newaygo	Serology	959	19579
2020/11/27 14:40:01	Newaygo	Total	25862	528011
2020/11/27 14:40:01	Oakland	Diagnostic	710333	564839
2020/11/27 14:40:01	Oakland	Serology	76343	60706
2020/11/27 14:40:01	Oakland	Total	786676	625545
2020/11/27 14:40:01	Oceana	Diagnostic	22186	838251
2020/11/27 14:40:01	Oceana	Serology	494	18665

2020/11/27 14:40:01	Oceana	Total	22680	856916
2020/11/27 14:40:01	Ogemaw	Diagnostic	8583	408773
2020/11/27 14:40:01	Ogemaw	Serology	275	13097
2020/11/27 14:40:01	Ogemaw	Total	8858	421870
2020/11/27 14:40:01	Ontonagon	Serology	47	8217
2020/11/27 14:40:01	Ontonagon	Diagnostic	5206	910140
2020/11/27 14:40:01	Ontonagon	Total	5253	918357
2020/11/27 14:40:01	Osceola	Diagnostic	13686	583376
2020/11/27 14:40:01	Osceola	Serology	457	19480
2020/11/27 14:40:01	Osceola	Total	14143	602856
2020/11/27 14:40:01	Oscoda	Diagnostic	2782	337580
2020/11/27 14:40:01	Oscoda	Serology	95	11528
2020/11/27 14:40:01	Oscoda	Total	2877	349108
2020/11/27 14:40:01	Otsego	Diagnostic	9494	384871
2020/11/27 14:40:01	Otsego	Serology	413	16742
2020/11/27 14:40:01	Otsego	Total	9907	401613
2020/11/27 14:40:01	Ottawa	Serology	7446	25515
2020/11/27 14:40:01	Ottawa	Diagnostic	206587	707902
2020/11/27 14:40:01	Ottawa	Total	214033	733417
2020/11/27 14:40:01	Presque Isle	Diagnostic	4988	396125
2020/11/27 14:40:01	Presque Isle	Serology	251	19933
2020/11/27 14:40:01	Presque Isle	Total	5239	416058
2020/11/27 14:40:01	Roscommon	Diagnostic	10850	451726
2020/11/27 14:40:01	Roscommon	Serology	412	17153
2020/11/27 14:40:01	Roscommon	Total	11262	468879
2020/11/27 14:40:01	Saginaw	Diagnostic	135216	709650
2020/11/27 14:40:01	Saginaw	Serology	4205	22069
2020/11/27 14:40:01	Saginaw	Total	139421	731719
2020/11/27 14:40:01	Sanilac	Diagnostic	24573	596867
2020/11/27 14:40:01	Sanilac	Serology	637	15472
2020/11/27 14:40:01	Sanilac	Total	25210	612339
2020/11/27 14:40:01	Schoolcraft	Serology	50	6177
2020/11/27 14:40:01	Schoolcraft	Diagnostic	3370	416358
2020/11/27 14:40:01	Schoolcraft	Total	3420	422535
2020/11/27 14:40:01	Shiawassee	Serology	1815	26643
2020/11/27 14:40:01	Shiawassee	Diagnostic	38168	560289
2020/11/27 14:40:01	Shiawassee	Total	39983	586932
2020/11/27 14:40:01	St Clair	Diagnostic	74209	466348
2020/11/27 14:40:01	St Clair	Serology	4823	30309
2020/11/27 14:40:01	St Clair	Total	79032	496657
2020/11/27 14:40:01	St Joseph	Diagnostic	31820	521947
2020/11/27 14:40:01	St Joseph	Serology	1040	17059
2020/11/27 14:40:01	St Joseph	Total	32860	539007
2020/11/27 14:40:01	Tuscola	Diagnostic	37760	722749
2020/11/27 14:40:01	Tuscola	Serology	1012	19370
2020/11/27 14:40:01	Tuscola	Total	38772	742119
2020/11/27 14:40:01	Unknown	Diagnostic	263972	
2020/11/27 14:40:01	Unknown	Serology	18861	
2020/11/27 14:40:01	Unknown	Total	282833	
2020/11/27 14:40:01	Van Buren	Serology	956	12633

2020/11/27 14:40:01	Van Buren	Diagnostic	55046	727381
2020/11/27 14:40:01	Van Buren	Total	56002	740013
2020/11/27 14:40:01	Washtenaw	Serology	12335	33555
2020/11/27 14:40:01	Washtenaw	Diagnostic	280805	763885
2020/11/27 14:40:01	Washtenaw	Total	293140	797441
2020/11/27 14:40:01	Wayne	Serology	50626	45865
2020/11/27 14:40:01	Wayne	Diagnostic	715346	648069
2020/11/27 14:40:01	Wayne	Total	765972	693933
2020/11/27 14:40:01	Wexford	Serology	503	14956
2020/11/27 14:40:01	Wexford	Diagnostic	15312	455294
2020/11/27 14:40:01	Wexford	Total	15815	470251

# PUBLIC USE DATASETS

## Diagnostic Tests by Result and County

### README

Data include diagnostic tests for COVID-19 by date and county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Correctional includes state and federal prisons and county and city detention facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.

The total number of positive tests may exceed the number of confirmed cases due to 1) a single individual may have more than one test performed; 2) MDHHS may receive data on positive tests in advance of a local health department classifying an individual as a confirmed or probable case, and 3) although efforts have been made to deduplicate testing data, some duplication may occur.



# DIAGNOSTIC TESTS BY RESULT AND COUNTY 2020-11-27

MessageDate	COUNTY	Negative	Positive	Total
11/25/2020	Alcona	17	4	21
11/25/2020	Alger	8	3	11
11/25/2020	Allegan	289	65	354
11/25/2020	Alpena	52	7	59
11/25/2020	Antrim	61	9	70
11/25/2020	Arenac	34	8	42
11/25/2020	Baraga	41	1	42
11/25/2020	Barry	153	42	195
11/25/2020	Bay	251	48	299
11/25/2020	Benzie	39	13	52
11/25/2020	Berrien	694	164	858
11/25/2020	Branch	278	41	319
11/25/2020	Calhoun	736	116	852
11/25/2020	Cass	86	26	112
11/25/2020	Charlevoix	89	8	97
11/25/2020	Cheboygan	26	3	29
11/25/2020	Chippewa	27	3	30
11/25/2020	Clare	40	3	43
11/25/2020	Clinton	148	28	176
11/25/2020	Correctional	1635	95	1730
11/25/2020	Crawford	25	6	31
11/25/2020	Delta	310	35	345
11/25/2020	Detroit City	2462	218	2680
11/25/2020	Dickinson	118	13	131
11/25/2020	Eaton	429	56	485
11/25/2020	Emmet	76	4	80
11/25/2020	Genesee	1570	260	1830
11/25/2020	Gladwin	22	4	26
11/25/2020	Gogebic	46	11	57
11/25/2020	Grand Traverse	186	32	218
11/25/2020	Gratiot	142	6	148
11/25/2020	Hillsdale	191	53	244
11/25/2020	Houghton	330	7	337
11/25/2020	Huron	83	10	93
11/25/2020	Ingham	1164	148	1312
11/25/2020	Ionia	263	74	337
11/25/2020	Iosco	87	13	100
11/25/2020	Iron	41	5	46
11/25/2020	Isabella	218	16	234
11/25/2020	Jackson	1543	203	1746
11/25/2020	Kalamazoo	1060	173	1233
11/25/2020	Kalkaska	31	5	36
11/25/2020	Kent	3339	590	3929
11/25/2020	Keweenaw	17	0	17
11/25/2020	Lake	17	3	20
11/25/2020	Lapeer	205	36	241
11/25/2020	Leelanau	30	4	34

11/25/2020	Lenawee	573	138	711
11/25/2020	Livingston	844	182	1026
11/25/2020	Luce	13	0	13
11/25/2020	Mackinac	19	0	19
11/25/2020	Macomb	3156	717	3873
11/25/2020	Manistee	12	2	14
11/25/2020	Marquette	302	28	330
11/25/2020	Mason	64	7	71
11/25/2020	Mecosta	162	31	193
11/25/2020	Menominee	50	22	72
11/25/2020	Midland	194	12	206
11/25/2020	Missaukee	32	7	39
11/25/2020	Monroe	858	168	1026
11/25/2020	Montcalm	301	26	327
11/25/2020	Montmorency	13	1	14
11/25/2020	Muskegon	412	89	501
11/25/2020	Newaygo	275	31	306
11/25/2020	Oakland	6595	1061	7656
11/25/2020	Oceana	69	10	79
11/25/2020	Ogemaw	82	10	92
11/25/2020	Ontonagon	25	3	28
11/25/2020	Osceola	74	17	91
11/25/2020	Oscoda	15	4	19
11/25/2020	Otsego	53	13	66
11/25/2020	Ottawa	930	203	1133
11/25/2020	Presque Isle	18	2	20
11/25/2020	Roscommon	34	9	43
11/25/2020	Saginaw	779	113	892
11/25/2020	Sanilac	212	36	248
11/25/2020	Schoolcraft	19	1	20
11/25/2020	Shiawassee	187	54	241
11/25/2020	St Clair	645	98	743
11/25/2020	St Joseph	138	32	170
11/25/2020	Tuscola	160	54	214
11/25/2020	Unknown	1000	98	1098
11/25/2020	Van Buren	355	59	414
11/25/2020	Washtenaw	2101	219	2320
11/25/2020	Wayne	5961	1044	7005
11/25/2020	Wexford	89	12	101
11/26/2020	Alcona	19	5	24
11/26/2020	Alger	94	1	95
11/26/2020	Allegan	376	95	471
11/26/2020	Alpena	31	12	43
11/26/2020	Antrim	175	11	186
11/26/2020	Arenac	54	12	66
11/26/2020	Baraga	5	0	5
11/26/2020	Barry	249	70	319
11/26/2020	Bay	548	96	644
11/26/2020	Benzie	37	12	49
11/26/2020	Berrien	932	301	1233

11/26/2020	Branch	142	68	210
11/26/2020	Calhoun	716	132	848
11/26/2020	Cass	150	45	195
11/26/2020	Charlevoix	83	12	95
11/26/2020	Cheboygan	63	8	71
11/26/2020	Chippewa	280	21	301
11/26/2020	Clare	39	6	45
11/26/2020	Clinton	212	15	227
11/26/2020	Correctional	12136	908	13044
11/26/2020	Crawford	27	2	29
11/26/2020	Delta	81	4	85
11/26/2020	Detroit City	2996	331	3327
11/26/2020	Dickinson	48	15	63
11/26/2020	Eaton	543	74	617
11/26/2020	Emmet	124	7	131
11/26/2020	Genesee	1313	158	1471
11/26/2020	Gladwin	39	3	42
11/26/2020	Gogebic	52	8	60
11/26/2020	Grand Traverse	449	58	507
11/26/2020	Gratiot	459	27	486
11/26/2020	Hillsdale	127	41	168
11/26/2020	Houghton	86	2	88
11/26/2020	Huron	132	32	164
11/26/2020	Ingham	1389	135	1524
11/26/2020	Ionia	616	62	678
11/26/2020	Iosco	59	10	69
11/26/2020	Iron	35	2	37
11/26/2020	Isabella	311	27	338
11/26/2020	Jackson	983	162	1145
11/26/2020	Kalamazoo	1151	171	1322
11/26/2020	Kalkaska	44	8	52
11/26/2020	Kent	3931	656	4587
11/26/2020	Keweenaw	9	0	9
11/26/2020	Lake	27	9	36
11/26/2020	Lapeer	210	60	270
11/26/2020	Leelanau	53	6	59
11/26/2020	Lenawee	606	93	699
11/26/2020	Livingston	319	57	376
11/26/2020	Luce	51	1	52
11/26/2020	Mackinac	41	3	44
11/26/2020	Macomb	2953	718	3671
11/26/2020	Manistee	60	4	64
11/26/2020	Marquette	633	66	699
11/26/2020	Mason	131	9	140
11/26/2020	Mecosta	165	35	200
11/26/2020	Menominee	151	12	163
11/26/2020	Midland	264	14	278
11/26/2020	Missaukee	40	12	52
11/26/2020	Monroe	447	135	582
11/26/2020	Montcalm	576	81	657

11/26/2020	Montmorency	18	6	24
11/26/2020	Muskegon	1257	311	1568
11/26/2020	Newaygo	140	30	170
11/26/2020	Oakland	4578	683	5261
11/26/2020	Oceana	147	43	190
11/26/2020	Ogemaw	27	8	35
11/26/2020	Ontonagon	13	1	14
11/26/2020	Osceola	103	21	124
11/26/2020	Oscoda	24	6	30
11/26/2020	Otsego	86	16	102
11/26/2020	Ottawa	1506	321	1827
11/26/2020	Presque Isle	44	9	53
11/26/2020	Roscommon	64	21	85
11/26/2020	Saginaw	1136	208	1344
11/26/2020	Sanilac	248	78	326
11/26/2020	Schoolcraft	55	4	59
11/26/2020	Shiawassee	294	27	321
11/26/2020	St Clair	484	82	566
11/26/2020	St Joseph	182	33	215
11/26/2020	Tuscola	183	56	239
11/26/2020	Unknown	1068	125	1193
11/26/2020	Van Buren	377	119	496
11/26/2020	Washtenaw	1540	171	1711
11/26/2020	Wayne	5241	854	6095
11/26/2020	Wexford	155	17	172